

County Borough of South Shields.



REPORT  
ON THE  
HEALTH OF THE BOROUGH  
DURING 1905,

BY

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AND WHITELEAS SMALLPOX HOSPITAL.



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# INTRODUCTORY.

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*To the Chairman and Members of the Health Committee.*

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MR. CHAIRMAN AND GENTLEMEN,

I have the honour of submitting to you my second annual report, the thirty-first report presented to you by successive Medical Officers. In several respects the condition of the Borough during 1905 has been very satisfactory. The death rate, 16.2 per 1,000, is far below any previously recorded death rate, that of 1903 (17.1) being the lowest hitherto. The deaths from Tuberculous Diseases numbered 191, which is 25 per cent. less than the deaths during any of the previous five years. I have not found records previous to 1888, with which this can be compared, but as far as our records go this gives the lowest Tuberculous Diseases death rate. If the public will grasp the importance of fresh air, light, and cleanly habits in eradicating this disease we may expect to see a great reduction in this rate, which is still far too high.

The outbreak of Smallpox which continued from 1904 came to an end in June. In all there were 100 cases during 1905. The epidemic of Scarlet Fever, which reached its highest in 1901, has been steadily decreasing ever since. Not only is the number of cases during 1905 the lowest, but in each of seven months of the year the number of cases notified per 1,000 of the population was less than in the corresponding month of any year since the Notification Act came into force.

I have to record the death of Inspector Hindmarch, which occurred on December 20th. He entered the service of the Corporation as Inspector of Nuisances on January 9th, 1874, and carried out his duties energetically until his health failed a few months before his death. His knowledge and experience with regard to the sanitary condition of the town were very extensive, and I hope the tradition of his efficiency will continue to inspire the Health Department.

I am, Gentlemen,

Yours obediently,

Health Office,  
South Shields,  
March. 1906.

S. G. MOSTYN.

# REPORT, 1905.

## VITAL STATISTICS.

**Area of Borough.**—2,399 acres, including inland water (55 acres), but excluding foreshore and tidal water (246 acres).

**Population.**—The Registrar-General estimated the population of the Borough to be at June 30th, 1905, 109,360. The density of population per acre is 45.5.

The following Table giving the estimated population of the several Wards has been worked out on the assumption that the ratio of the population to the number of burgesses in each Ward has remained the same as at the last census. The total agrees very well with the Registrar-General's estimate.

Ward.	Population.
Shields .....	8,863
Hilda .....	5,099
Holborn .....	7,078
Beacon .....	10,658
Bents .....	11,043
Westoe .....	14,257
Laygate .....	10,519
Rekendyke .....	12,536
Deans .....	15,422
Tyne Dock.....	13,850
Total .....	109,325

**Births.**—The number registered during the year was 3,501, being 204 less than during the previous year. This gives a BIRTH-RATE OF 32.01 per 1,000 of the population. The births were

	Males	Females	Total.
Legitimate .....	1,700	1,679	3,379
Illegitimate .....	61	61	122
Total .....	1,761	1,740	3,501

The percentage of illegitimate births was 3.5, whilst for 1904 it was 3.2.

**Deaths.**—1,775 deaths were recorded as belonging to the Borough, 934 being males, and 841 females. The proportion of male to female deaths is thus 1,110 to 1,000.

This number, 1,775, *includes* the deaths of 141 persons who died in Harton Workhouse, 13 in Sedgefield Asylum, 5 in the Fleming Memorial Hospital, Newcastle, 4 in the Royal Infirmary, Newcastle, 4 in Whiteleas Smallpox Hospital, 1 in the Floating Hospital, Jarrow, 1 in Sunderland Workhouse, 1 in Sunderland Infirmary, and 1 in H.M. Prison, Durham. These 171 persons all belonged to the Borough, but at their decease were in these institutions on account of sickness or infirmity. Similarly three deaths occurring in South Shields Institutions among persons belonging to other districts have been *excluded* (see the Local Government Board's definition of "non-residents," page 36).

On this figure, 1775, the DEATH-RATE is equal to 16.2 per 1,000 of the population. This is the lowest death-rate on record for South Shields. The death-rate has never before been below 17. and on only three occasions below 18 per 1,000.

The death-rates quarter by quarter were as follows :—

	No. of Deaths.	Death-rate.
1st Quarter .....	499	18.25
2nd. „ .....	445	16.28
3rd „ .....	400	14.63
4th „ .....	431	15.76



**Uncertified Deaths.**—During 1905 there were 74 deaths the causes of which were not certified by the Coroner or by medical men. Of these, 34 were deaths of children under 1 year. The number of uncertified deaths is very high and compares very unfavourably with the proportion for the whole country. There were in addition 74 other deaths regarding which inquests were held. During 1904 the number of inquests and uncertified deaths was 155.

**Deaths in Public Institutions.**—256, *i.e.*, one-seventh of all the deaths registered during the year occurred in public institutions. This number is made up of the 171 deaths mentioned on page 7, 66 in the Ingham Infirmary and 19 in the Denes Fever Hospital.

**Infantile Mortality.**—The number of deaths under one year of age was 509, which is equivalent to an INFANTILE MORTALITY RATE of 145 per 1,000 births. Last year the rate was 144. There is here an opportunity for a great saving of life. Public attention has been repeatedly called to this important question in South Shields and throughout the country. The Local Government Board this year asks for detailed information regarding these deaths, and for this purpose have drawn up Table VI., which deserves careful study.

**Zymotic Diseases.**—The seven principal Zymotic Diseases accounted for 204 deaths during the year, as follows:—

Smallpox.	Scarlet Fever.	Diphtheria and Membranous Croup	"Fever."	Measles.	Whooping Cough.	Diarrhoea.
4	6	24	23	24	64	59

The death-rate for the seven principal ZYMOTIC DISEASES was 1.86 per 1,000 of the population, as compared with 1.77 for the year 1904.

The following Table compares the death-rates (per 1,000 of the population) for each of the principal epidemic diseases, during last year and previous years.



YEAR.	Smallpox.	Scarlet Fever.	"Fever."	Diphtheria and Membranous Croup.	Measles.	Whooping Cough.	Diarrhoea.	Total Zymotic Rate.
Mean 1871-80 ..	.85	1.44	.79	.12	.42	.78	1.59	6.02
Mean 1881-90 ..	.01	.45	.19	.10	.34	.44	.78	2.34
1891 .....	.00	.11	.20	.29	.90	.60	.73	2.85
1892 .....	.00	.12	.21	.09	.29	.33	.53	1.66
1893 .....	.036	.38	.37	.02	.38	.36	1.56	3.18
1894 .....	.00	.39	.20	.04	.19	.17	.42	1.36
1895 .....	.00	.18	.34	.08	.29	.90	1.42	3.36
1896 .....	.00	.18	.28	.04	.92	.42	.58	2.49
1897 .....	.00	.15	.16	.06	.28	.25	.88	1.83
1898 .....	.00	.25	.39	.00	.56	.77	1.11	3.09
1899 .....	.00	.21	.47	.02	.04	.12	1.41	2.33
1900 .....	.00	.21	.19	.09	.55	.67	.55	2.33
Mean 1891-1900	.003	.21	.28	.07	.44	.45	.92	2.44
Mean 1871-1900	.291	.70	.42	.10	.40	.56	1.10	3.60
1901 .....	.00	.60	.22	.14	.68	.10	1.60	3.36
1902 .....	.039	.38	.06	.06	.92	1.01	.16	2.62
1903 .....	.009	.11	.09	.15	.14	.03	.47	1.01
1904 .....	.065	.07	.08	.11	.26	.59	.57	1.77
1905 .....	.036	.05	.21	.22	.22	.58	.54	1.86

The Table below compares South Shields with the towns and the country generally.

	Annual Rate per 1,000 of the Population.										Deaths under one year of age per 1,000 Births.
	Births.	Deaths.	Principal Epidemic Diseases.	Smallpox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	"Fever."	Diarrhoea.	
England and Wales...	27.2	15.2	1.52	0.00	0.32	0.11	0.16	0.25	0.09	0.59	128
76 Great Towns ....	28.2	15.7	1.88	0.00	0.39	0.13	0.16	0.29	0.08	0.83	140
141 Smaller Towns ..	26.9	14.4	1.50	0.00	0.31	0.11	0.15	0.23	0.13	0.57	132
England and Wales less the 217 Towns.	26.3	14.9	1.09	0.00	0.24	0.09	0.15	0.20	0.09	0.32	113
Durham Administrative County .....	34.4	17.4	2.37	0.00	0.48	0.09	0.25	0.42	0.20	0.90	159
<b>SOUTH SHIELDS ..</b>	<b>32.0</b>	<b>16.2</b>	<b>1.86</b>	<b>0.04</b>	<b>0.22</b>	<b>0.05</b>	<b>0.22</b>	<b>0.58</b>	<b>0.21</b>	<b>0.54</b>	<b>145</b>

The birth-rates and total death-rates are all less than in 1904. The same is true for the whole country in the case of the deaths from Zymotic Diseases and deaths under 1 year. In South Shields the Zymotic death-rate has increased by about 5 per cent, while the Infantile Mortality rate is practically the same.

Year.	SOUTH SHIELDS.				ENGLAND & WALES.			
	Annual Rate per 1,000 of the Population.			Infantile Mortality Rate per 1,000 Births.	Annual Rate per 1,000 of the Population.			Infantile Mortality Rate per 1,000 Births.
	Birth.	Death.	Zymotic		Birth.	Death.	Zymotic	
1896 ..	35.7	18.5	2.49	165	29.6	17.1	2.18	148
1897 ..	35.9	17.2	1.83	154	29.6	17.4	2.15	156
1898 ..	37.0	21.5	3.09	182	29.3	17.5	2.22	160
1899 ..	36.0	20.7	2.33	175	29.1	18.2	2.21	163
1900 ..	36.3	21.4	2.33	160	28.7	18.2	2.00	154
1901 ..	36.8	20.6	3.36	169	28.5	16.9	2.05	151
1902 ..	36.4	19.4	2.62	149	28.5	16.2	1.64	133
1903 ..	34.5	17.1	1.01	132	28.4	15.4	1.46	132
1904 ..	34.5	18.1	1.77	144	27.9	16.2	1.94	146
1905 ..	32.0	16.2	1.86	145	27.2	15.2	1.52	128

This Table, for the last ten years, shews that our birth-rate, though it has been throughout considerably higher than that of the whole country, is declining, and even more rapidly than that of England and Wales. It is noteworthy that the death-rate for South Shields, 16.2, and that for England and Wales, 15.2, are both lower than any previously recorded. Fuller information with regard to our birth-rate and death-rate will be found in Table V. on page 37.

## INFECTIOUS DISEASES.

TABLE showing the number of **notifications** of the Notifiable Diseases, and the **deaths** therefrom, during 1905 :—

Diseases.	Cases Notified.	Deaths Registered.
Smallpox .....	100	4
Scarlet Fever.....	227	6
Diphtheria .....	102	23
Membranous Croup .....	1	1
Typhus Fever .....	..	..
Enteric (or Typhoid) Fever .....	84	23
Continued Fever .....	..	..
Relapsing Fever .....	..	..
Puerperal Fever .....	4	4
Cholera .....	..	..
Erysipelas .....	117	5*
Plague .....	..	..
Chickenpox .....	327§	..
Totals for 1905 .....	962	66
Totals for 1904 .....	1025	43

\* Three of these deaths occurred in the Harton Workhouse.

§ Chickenpox ceased to be notifiable on August 26th.

Compared with 1904 the number of cases of and deaths from Scarlet Fever shews improvement, but Diphtheria and Typhoid Fever were more prevalent and caused more deaths in 1905.

The following Table shows the number of **cases** of Infectious Disease notified, and the **months** in which they occurred:—

1905.	Smallpox.	Scarlet Fever.	Diphtheria.	Membranous Croup.	Typhus Fever.	Enteric Fever.	Continued Fever.	Relapsing Fever.	Puerperal Fever.	Cholera.	Erysipelas.	Plague.	Chickenpox.	Totals.
January .	36	29	4	..	..	4	..	..	1	..	12	..	43	129
February	11	22	6	..	..	8	..	..	..	..	7	..	29	83
March ...	24	23	3	..	..	7	..	..	..	..	10	..	43	110
April ....	18	4	5	1	..	6	..	..	1	..	6	..	32	73
May ....	9	16	9	..	..	6	..	..	1	..	9	..	65	115
June ....	2	10	10	..	..	8	..	..	..	..	15	..	53	98
July ....	..	11	4	..	..	6	..	..	..	..	8	..	43	72
August ..	..	14	3	..	..	9	..	..	..	..	11	..	19	56
September ..	23	12	..	..	..	14	..	..	1	..	7	..	..	57
October .	..	25	15	..	..	9	..	..	..	..	10	..	..	59
November ..	31	16	..	..	..	2	..	..	..	..	13	..	..	62
December ..	19	15	..	..	..	5	..	..	..	..	9	..	..	48
Total for 1905 ..	100	227	102	1	..	84	..	..	4	..	117	..	327	962
Total for 1904 ..	101	278	69	4	..	59	1	..	3	..	99	..	411	1025

The Infectious Disease (Notification) Act, 1889, was brought into force within the Borough on May 1st, 1891. During the past eleven years the **notifications** have been as follows:—

Disease.	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
Smallpox .....	22	12	3	6	2	2	..	71	35	101	100
Plague .....	..	..	..	..	..	..	..	..	..	..	..
Cholera .....	..	..	..	..	..	..	..	..	..	..	..
Diphtheria .....	27	31	35	16	28	23	30	23	78	69	102
Membranous Croup	8	8	3	1	5	6	5	4	5	4	1
Erysipelas .....	78	111	105	133	86	80	79	98	110	99	117
Scarlet Fever .....	386	482	638	633	669	511	1263	834	378	278	227
Typhus Fever ....	..	..	..	..	..	..	..	..	..	..	..
Enteric Fever ....	153	127	78	165	175	71	115	66	58	59	84
Puerperal Fever ..	4	4	9	8	4	4	5	7	6	3	4
Continued and Relapsing Fever ..	25	21	14	8	2	6	2	..	..	1	..
Chickenpox .....	..	..	..	..	..	..	..	421	619	411	327
Totals .....	703	796	885	970	971	703	1499	1524	1289	1025	962

**Smallpox.**—100 cases were notified, and 4 deaths were registered from this disease. The following Table shows the months in which the cases and deaths occurred. One of the 4 deaths was that of a case notified in 1904.

1905.	Cases.	Deaths.
January .....	36	2
February .....	11	..
March .....	24	1
April .....	18	1
May .....	9	..
June .....	2	..
Totals .....	100	4

The outbreak of Smallpox at the end of 1904 continued into the first half of 1905, and reached its greatest height in January. After April, the number of cases fell rapidly. The last case was admitted to Hospital on June 10th, and since this date the Borough has been free from the disease. The accommodation at the Hospital was sufficient, and at no time was there any overcrowding of patients.

Special reports on the outbreak were submitted to the Health Committee in January and March. The substance of these is included in the Annual Reports. Of the 100 cases, 43 were infected by cases previously removed to Hospital. Thirty-two of these 43 were under the observation of the staff of the Health Department as "contacts," and were in consequence taken to Whiteleas as soon as the disease could be detected. In only three instances did any further infection take place from these contacts. Two of these 3 cases were inmates of a Common Lodging House in which all the lodgers had refused re-vaccination.

The steps taken to stamp out the disease were the same as in previous years. The names and addresses of about 650 "contacts"—persons who had been with the patients since the disease had appeared—were obtained, and 5,457 visits were paid by the Inspectors to them. Vaccination was urged, and accepted by 283 contacts, and disinfection of clothing, bedding, and rooms was carried out. Members of the infected households to the number of 445 were removed to the Contact house at Whiteleas while disinfection was being carried out at their homes. Small handbills, drawing attention to the danger of mild cases of Smallpox being overlooked, and urging medical advice in all cases of skin eruptions, were distributed in various parts of the town. In January, at the height of the outbreak, two temporary Inspectors were engaged to help in the visiting of contacts.



Particulars of the various groups of cases are given in the Table below. I would draw attention to Group 5. The first patient had suffered from Smallpox for a fortnight, and the nature of his illness was not detected until the ten other members of the family contracted the disease. The cases of Group 27 were the only ones which occurred in a Common Lodging House or a Seamen's Boarding House. It was necessary to remove the inmates, about 30 in number, and disinfect the premises on three occasions. The trouble and expense to the town, and the difficulty in eradicating the disease in this instance illustrate the danger of the Common Lodging House as a means of spreading infectious disease.

A case of Smallpox occurred in the family of an employee at a laundry. The work of the Health Department was helped in every way by the Manager, and there was no spread of the disease from this centre.

In the Table showing the condition of the patients as regards vaccination, it will be seen that there were ten cases under 10 years of age. Of these, only one showed signs of vaccination. He had only one vaccination mark and but one Smallpox spot! The three deaths were of persons over 40 years of age.

The Public Vaccination Officer informs me that during the year 2,887 successful primary vaccinations were performed by the Public Vaccinators; forty-three exemption orders were granted; and 15 children were found to be insusceptible.

The following Table shows the **Ages** and condition as regards **Vaccination** of the 100 cases of Smallpox treated in Whiteleas Smallpox Hospital during 1905, the deaths being shown in brackets:

Condition as to Vaccination.	Years of Age.					Totals.
	0-5	5-10	10-20	20-40	Over 40.	
Not Vaccinated.....	4	2	5	2	3	16
Not Vaccinated until after exposure to Smallpox ...	2	..	..	1	..	3
Marks: 0 .....	..	1	1	..	4(1)	6 (1)
1 .....	..	1	2	3	3(1)	6 (1)
2 .....	..	..	3	11	10 (1)	24 (1)
3 .....	..	..	5	11	2	18
4 .....	..	..	8	15	1	24
Totals .....	6	4	24	43	23 (3)	100 (3)

In addition to these, one was admitted to Whiteleas Hospital from the South Shields Rural District: an unvaccinated child of 5½ years, suffering from confluent Smallpox.

Table showing **Type** of Disease, **Severity** of Attack, and Condition as to **Vaccination** of the above cases: deaths being shown in brackets :—

Type.	Severity of Attack.	Condition as to Vaccination.							Totals.
		Not Vaccinated.	Vaccinated only after exposure.	Number of Marks.					
				0	1	2	3	4	
Discrete .....	Mild .....	1	2	2	5	9	9	17	45
	Moderate ..	7	1	2	3	10	7	4	34
	Severe ..	5	..	..	..	4	1	2	12
Semi-confluent	Severe ..	1	..	1 (1)	..	..	1	1	4 (1)
Confluent .....	Severe ..	2	..	1	1 (1)	..	..	..	4 (1)
Haemorrhagic	Severe ..	..	..	..	..	1 (1)	..	..	1 (1)
Totals .....	Mild .....	1	2	2	5	9	9	17	45
	Moderate ..	7	1	2	3	10	7	4	34
	Severe ..	8	..	2 (1)	1 (1)	5 (1)	2	3	21 (3)
Totals .....	..	16	3	6 (1)	9 (1)	24 (1)	18	24	100 (3)

### SMALLPOX, 1905.

The date in brackets is the date of removal to Hospital.

Group No.	Date of Notification of Primary Cases.	PARTICULARS OF CASES.	Number of Cases in Group.
1	Jan. 1	Source Unknown. Infected husband (Jan. 13th) .....	2
2	" 3	Pawnbroker's Assistant. Probably infected by pledges ....	1
3	" 4	Infected by brother who was removed to Whiteleas Hospital on December 24th, 1904 .....	1
4	" 5	Source Unknown. Infected 3 others (Jan. 14th, 14th, and 23rd). Also see Group 9 .....	4
5	" 6	Eleven cases were detected in one house, one of whom had developed the disease a fortnight previously. On January 20th a friend who had been visited by this family also developed Smallpox .....	12
6	" 7	A mother and her daughter infected by the father who had recovered, and had probably been infected by the primary case in Group 5. Another daughter was notified on January 19th .....	3
7	" 9	Source Unknown .....	1
8	" 10	Probably infected at " Poor Children's Breakfast " .....	1
9	" 10	Source Unknown. Wife developed disease on January 16th, and two sisters on January 19th and 20th. These patients were near relatives of one of the secondary cases of Group 4. The disease further spread to a child with whose parents one of the latter patients had lodged. (January 26th.) .....	5



## SMALLPOX, 1905.—CONTINUED.

Group No.	Date of Notification of Primary Cases.	PARTICULARS OF CASES.	Number of Cases in Group.
10	Jan. 11	Source outside of Borough. Infected her sister (January 19th) .....	2
11	" 17	Brother of a previous patient .....	1
12	" 18	Infected by daughter who had been treated for Chickenpox. .	1
13	" 19	Source Unknown .....	1
14	" 21	Do. Infected brother (February 7th) .....	2
15	Feb. 1	Infected by her aunt (a friend of Group 4), who had an unrecognised attack. The patient's mother developed the disease (February 13th) .....	2
16	" 4	Connected with Group 5 .....	1
17	" 9	Source Unknown .....	1
18	" 13	Do. Infected mother and sister (February 22nd). See Group 32 .....	3
19	" 20	Imported Case .....	1
20	" 23	Washed for the last case of Group 10 .....	1
21	" 24	Source Unknown .....	1
22	Mar. 6	Do. .....	1
23	" 6	Do. Infected husband and child (March 18th) and another relative (March 23rd). See Group 28 .....	4
24	" 7	Do. See Group 28 .....	1
25	" 7	Imported Case .....	1
26	" 8	Source Unknown .....	1
27	" 11	Source Unknown. Case occurred in a Common Lodging House. All the inmates refused vaccination. Three cases followed (March 25th, 26th, 26th); from these latter two further cases (April 8th and 10th); and a case (April 27th) .....	7
28	" 18	Source Unknown. Infected husband and son (March 30th) and a neighbour (March 31st), who infected her husband (April 11th) and her mother (April 12th). The cases of Groups 23, 24, 27, and 28 lived or worked in the same locality and were probably connected .....	6
29	" 23	Source Unknown .....	1
30	" 23	Do. Infected servant (Apr. 5th). See Group 32. .	2
31	" 24	Do. Infected mother (Apr. 4th) and father (Apr. 8th), from whom a neighbour was infected (Apr. 26th) See Group 36 ....	4
32	" 24	Source Unknown. Infected wife and two children (March 31st), workmate (April 8th), and an unrecognised case at the same works infected a further case (April 27th). The primary cases of Groups 18, 29, 30, and 32 all attended the Salvation Army .....	6
33	" 25	Source Unknown .....	1
34	" 29	Do. Worked with 31, and caused secondary case (April 11th) See Group 36 ....	2
35	" 31	Source Unknown .....	1
36	April 11	Source Unknown; probably 34 at same works. Primary cases of Groups 31, 34, and 36, all worked together. .	1
37	" 12	Probably imported .....	1
38	" 17	Source Unknown .....	1
39	" 18	Do. Perhaps imported .....	1
40	May 1	Do. .....	1
41	" 4	Do. .....	1
42	" 7	An unrecognised case working outside of Borough infected his mother and brother .....	2
43	" 12	Infected by an unrecognised case .....	1
44	" 13	Same source as 43 .....	1
45	" 14	Do. .....	1
46	" 22	Imported .....	1
47	" 29	Probably 44; infected his father (June 10th). .	2
48	June 2	Perhaps same source as 47 .....	1

**Chickenpox.**—From January 1st to August 25th, 327 cases of Chickenpox were notified. This disease was made compulsorily notifiable on April 10th, 1902, and ceased to be notifiable on August 25th, 1905.

**Scarlet Fever.**—227 cases were notified, and 6 deaths occurred from this disease. 160 of these cases, of which 3 died, were removed to Hospital. Not only is this the lowest number of cases notified in any year since the adoption of the Notification Act in 1891, but in seven months of 1905 the prevalence of the disease was less than in the corresponding months of any previous year since that date. Since the epidemic of 1901, when 1,263 cases were notified, the number of cases has steadily fallen. The type of the disease was mild, as usually occurs at the end of an epidemic.

The distribution of the disease in the several Wards, and during the different quarters of the year, is shown in the following Table :—

WARDS.	Shields.	St. Hilda.	Holborn.	Beacon.	Bents.	Westoe.	Laygate.	Rekendyke.	Deans.	Tyne Dock.	Totals.
1st Quarter .....	1	2	..	4	7	13	9	10	14	14	74
2nd „ .....	3	..	1	2	1	7	2	3	10	1	30
3rd „ .....	3	1	1	2	2	12	5	9	12	1	48
4th „ .....	5	1	2	6	6	13	5	15	17	5	75
Whole Year .....	12	4	4	14	16	45	21	37	53	21	227
Attack Rate for 1000 of the Population.	1·4	0·8	0·6	1·3	1·4	3·2	2·0	2·9	3·4	1·5	2·1
% of Cases removed to Hospital .....	100	75	100	64	94	58	71	81	72	38	70·5
Mortality % of Cases	..	25	..	..	..	2·2	4·8	2·7	1·9	4·8	2·6

Scarlet Fever Attack-, Death-, and Mortality-rates, together with the percentage of cases removed to the Hospital since 1902, with average at foot for comparison :—

Year.	Population.	Attack-rate per 1,000 Population.	Death-rate per 1,000 Population.	Mortality Rate % of Cases.	Percentage of cases Removed to Hospital.
1892	80,530	4.8	.12	2.5	34
1893	82,284	7.4	.38	5.2	27
1894	84,077	8.4	.39	4.6	28
1895	85,910	4.4	.18	4.1	33
1896	87,785	5.4	.18	3.3	40
1897	89,699	7.1	.15	2.2	40
1898	91,656	6.9	.25	3.6	42
1899	93,657	7.1	.21	3.0	42
1900	95,703	5.3	.21	4.1	55
1901	97,800	12.5	.60	4.7	39
1902	103,330	8.0	.38	4.7	49
1903	105,325	3.6	.11	3.2	73
1904	107,334	2.9	.07	2.9	75
Average of years 1892 to 1904	92,699	6.4	.25	3.7	44
1905	109,360	2.1	.05	2.6	70

**"Fever."**—84 cases of Typhoid Fever were notified, of which 23 died. The "fever" death rate per 1,000 of the population was 0.21. No cases were notified as Continued or Relapsing Fever. The diagnosis was doubtful in 7 instances.

Fifteen of the cases were "secondary" cases, that is, infected by cases previously notified. Nine cases were infected outside the Borough, and were chiefly seamen. Our position as a seaport exposes us to infection from this source.

Table VII. shows that the distribution of Typhoid Fever throughout the Borough was fairly uniform.

The "Fever" attack rate per 1,000 of the population was 0.77. This is higher than it has been for the previous three years.

Fifty-six of the cases notified during the year were removed to hospital.

**Diphtheria and Membranous Croup.**—The fear expressed in last year's annual report that Diphtheria was likely to increase in the Borough proved well founded: 103 cases were notified during 1905, of which 24 died. This is the largest number yet notified, and the

death rate from the disease, 0.22 per 1,000 of the population, is higher than in any year since 1891.

I would again urge the necessity for the construction of a new Infectious Diseases Hospital in which Diphtheria may be treated with safety. Hospital treatment is of peculiar advantage in this disease, as careful and skilful nursing is required in severe cases. A bad case of Diphtheria cannot be properly treated in a poor tenement. Diphtheria is prevalent in the neighbouring districts, and the increase of recent years seems likely to continue.

**Puerperal Fever.**—Four cases of this disease occurred during the year, and four deaths were registered.

**Erysipelas.**—117 cases were notified; of these 2 died. Three other deaths from this disease occurring in the Harton Work-house among South Shields inmates are included in our returns.

**Typhus Fever, Cholera, Plague.**—No cases of these diseases were notified during the year.

**Infantile Diarrhœa.**—There were 59 deaths from this disease, giving a rate of 0.54 per 1,000 of the population. 51 of the 59 deaths occurred in the third quarter of the year, the time at which this disease usually becomes serious; 5 occurred in the fourth quarter; and 3 in the second quarter.

It is important to notice that 50 of these deaths were of children under 1 year, and only one over 2 years of age.

The distribution of the disease in the Wards is shown in Table II. Laygate and Holborn Wards have the highest mortality; the four Northern Wards have only 8 deaths. A special report on Diarrhœa was presented to the Health Committee in October. In connection with this report enquiries were made regarding the housing and feeding of 50 children who died from Diarrhœa during the summer. The results of these enquiries showed that few, if any, of these deaths occurred in the better residential portions of the town. The cause of the disease is food pollution, principally by dust and flies. Only 4 of the 50 children were solely breast-fed. The bottle-fed baby is particularly liable to this disease unless great precautions are taken. Dirty back streets and yards supply the material to pollute the food. Defective paving allows the subsoil to become sodden with filth. Of the 48 yards inspected at this time, only three had a single tenant, 26 had two tenants each; 6 had three tenants; 6 had four; and 1 had five; while 3 had six tenants each. This is note-worthy and shows the danger of common yards. It is a matter of daily experience that gross uncleanness of the yards and privies cannot be efficiently dealt with owing to the difficulty in fixing responsibility. There is every reason to believe that greater cleanliness of the houses and improvement in habits would save almost all these lives.



**Measles** caused 24 deaths, equal to a death-rate of 0.22 per 1,000 of the population. The ages at death were, 8 under 1 year; 13 between 1 and 5 years; 2 from 5 to 10; and 1 over 35. The outbreak at the end of 1904 continued into the early months of this year, 21 of the 24 deaths occurring before the end of April.

**Whooping Cough** caused 64 deaths; 28 under 1 year; 34 from 1 to 5; and 2 over 5. This disease also continued from the previous winter: 40 deaths occurred in the first five months of 1905, and only 5 in the last 3 months of the year.

**Schools and Infectious Disease.**—The following Table shows the classes and departments in the Council Schools closed during 1905 on account of Infectious Disease.

School.	Depart- ment.	Classes.	Date of Closing.	Length of Closure.	Disease Prevalent.
Baring Street ..	Infants'	9	Feb. 24	22 days	Measles.
Do. ..	do.	10	Mar. 2	21 ..	do.
Do. ..	do.	all	.. 3	22 ..	do.
St. Mary's ....	do.	11	.. 7	22 ..	do.
Simonside ....	Mixed	4 and 5	.. 30	21 ..	do.

This compares very favourably with 1904, when 27 closing orders were obtained. I would here thank the teachers, and in particular the head mistresses of the Infants' Schools, for the way in which they have helped to produce this satisfactory result by watching for and at once reporting illness among their scholars.

At the request of the Health Committee, a report was made by the Medical Officer of Health on May 23rd, on the subject of Infectious Disease among children. The enormous mortality under 5 years, and the danger of collecting these very young children together in schools was emphasised. On August 2nd the Council resolved that children under 5 years should not be admitted to the schools. It is too early yet to trace the effect of this step in preventing the spread of infectious disease among school children.

**Tuberculosis.**—There were 191 deaths from this disease during 1905, as follows :—

Pulmonary Tuberculosis (Tuberculous Phthisis) . .	93
“ Phthisis ” (not otherwise defined) . . . . .	33
Tuberculous Meningitis . . . . .	23
Tuberculous Peritonitis . . . . .	16
“ Tabes Mesenterica ” . . . . .	7
Tubercle of other organs . . . . .	8
General Tuberculosis . . . . .	11

The death-rate from tuberculous diseases, 1.74 per 1.000 of the population, is a great improvement on previous years, a reduction of 25% on the average rate for the 5 years, 1900 to 1904.

Wherever a death from Phthisis occurred during the year disinfection of the room and its contents was urged and in most cases carried out. Fifty-five bundles of bedding and nine rooms were disinfected by the staff of the Health Department. It is to be hoped that the fall this year in the Tuberculosis death-rate is a sign that the public is beginning to realise that cleanliness, light, and fresh air are the means by which this dreadful disease is to be combatted.

#### PHTHISIS DEATHS, 1901 TO 1905.

OCCUPATION.	MALE.		FEMALE.	
	1901-4.	1905.	1901-4.	1905.
Agent .....	2	..	..	..
Baker .....	1	1	..	..
Barber .....	7	..	..	..
Barmaid .....	..	..	..	1
Barman .....	8	2	..	..
Billposter .....	1	..	..	..
Blacksmith .....	4	1	..	..
Block and Mast Maker .....	2	..	..	..
Boiler Cleaner .....	..	1	..	..
Bricklayer .....	10	2	..	..
Brushmaker .....	1	..	..	..
Butcher .....	2	2	..	..
Cabinet Maker .....	..	1	..	..
Canvasser .....	..	..	1	..
Carpenter .....	10	2	..	..
Cartman .....	8	..	..	..
Charwoman .....	..	..	1	1
Clerk .....	18	2	1	..
Coal Merchant .....	1	..	..	..
Coal Miner .....	17	1	..	..
Coal Staithesman .....	1	..	..	..
Coal Trimmer .....	6	1	..	..
Colliery Labourer .....	..	1	..	..
Colliery Wagonwayman .....	1	..	..	..
Commercial Traveller .....	1	..	..	..
Diver .....	1	..	..	..
Dock Stevedore .....	2	..	..	..
Domestic Servant .....	..	..	9	2
Draper .....	3	..	1	..
Drayman .....	1	..	..	..
Dressmaker .....	..	..	2	..
Engineer .....	4	3	..	..
Engineer (Electrical) .....	1	..	..	..
Engineer (Marine) .....	9	1	..	..
Engineman .....	4	..	..	..
Errand Boy .....	2	..	..	..
Fireman .....	1	1	..	..
Fisherman .....	1	..	..	..
Foyboatman and Waterman .....	1	4	..	..

## PHTHISIS DEATHS, 1901 TO 1905.—CONTINUED.

OCCUPATION.	MALE.		FEMALE	
	1901-4.	1905.	1901-4.	1905.
Glassmaker .....	3	..	..	..
Greengrocer .....	1	..	..	..
Grocer .....	6	1	..	..
Hawker .....	3	1	2	..
Horsekeeper .....	2	..	..	..
Irondriller.....	1	..	..	..
Ironmonger .....	1	..	..	..
Joiner .....	11	4	..	..
Labourer (Bricklayer) .....	..	1	..	..
Labourer (Dock) .....	9	..	..	..
Labourer (Field) .....	..	..	1	..
Labourer (General).....	47	2	..	..
Labourer (Shipyard) .....	6	3	..	..
Laundress .....	..	..	1	1
Mineral Water Worker .....	2	..	..	..
Moulder .....	1	1	..	..
Nurse .....	..	..	..	1
Officer of Board of Trade .....	1	..	..	..
Painter .....	6	..	..	..
Patternmaker .....	1	..	..	..
Photographer .....	2	..	..	..
Physician .....	1	..	..	..
Pilot .....	2	1	..	..
Plasterer .....	1	1	..	..
Plumber .....	2	1	..	..
Ragpicker .....	..	..	..	1
Railway Guard .....	2	..	..	..
Rivetter, Boilermaker, etc. ....	15	1	..	..
Sailmaker .....	1	..	..	..
Seaman .....	23	3	..	..
Sea Donkeyman .....	3	1	..	..
Sea Fireman .....	16	2	..	..
Sea Steward .....	3	4	..	..
Scholar .....	24	5	27	4
School Teacher .....	3	..	..	..
Shoemaker .....	4	..	..	..
Shop Assistant .....	..	..	2	1
Steamboatman .....	2	..	..	..
Stonemason .....	2	1	..	..
Tailor .....	2	..	..	..
Tram Conductor and Motorman ..	3	1	..	..
Watchmaker .....	..	1	..	..
Wharfinger .....	1	..	..	..
None: Adults .....	11	..	37	..
.. Children .....	28	7	21	6
Unknown .....	6	2	189*	49*
Totals .....	389	70	295	67

\* Mostly housewives.

TOTALS ..	1901.....	160
	1902.....	184
	1903.....	176
	1904.....	164
	1905.....	137

**Bacteriological Laboratory.**—97 specimens were examined during the year, including 56 for Diphtheria and 38 for Typhoid Fever.



# The Borough Hospitals

## FOR

## INFECTIOUS DISEASES.

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The following Table shows the number of patients admitted to and discharged from **Denes Hospital** during 1905 :—

Disease.	Remaining in on Dec. 31st, 1904.	Admitted during 1905.	Total Number Treated.	Discharged.	Died.	Remaining in on Dec. 31st, 1905.	Mortality per cent. of total number Discharged and Died.	Average Number of Patients in Hospital daily.
Scarlet Fever	23	161	184	161	3	20	1.8	22.1
Enteric Fever	8	59	67	48	16	3	25.0	5.3
Suspects . . . .	..	4	4	3	..	1	..	0.1
Totals . . . .	31	224	255	212	19	24	8.2	27.5

Among the admissions to Hospital during 1905 are included one case of Scarlet Fever and two of Enteric Fever from the Borough of Tynemouth, and a case of Enteric Fever in a nurse at the Hospital.

Excluding the fatal cases, the average duration of stay in Hospital of Scarlet Fever patients was 43.2 days, of Enteric Fever, 38.7 days, and of "Suspects," 16.2 days.

The fatal cases of Scarlet Fever were in Hospital 5, 6, and 24 days respectively, while of the 16 Enteric Fever fatal cases, nine were in Hospital less than one week, and four others between one and two weeks.

The total number of cases admitted to the Denes Hospital during 1905 is less than in any year since 1895.

DENES HOSPITAL.—The Hospital was first opened for the reception of Patients in May, 1883, and the number of cases admitted year by year, since that date, is as follows :—

Disease.	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
Smallpox .....	12	22	5	3	3	2	..	..	..	8	6	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever.....	23	8	100	120	212	60	23	43	118	134	164	199	126	195	259	266	284	282	486	409	277	209	161
Enteric Fever .....	7	16	9	11	9	6	15	35	17	8	42	26	66	65	47	107	114	44	66	35	29	29	59
Diphtheria .....	..	..	2	..	1	1	2	3	1	1	..	..	..	..	..	..	1	1	..	..	..	..	..
Typhus Fever .....	3	16	3	..	..	2	..	1	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Diseases .....	6	4	7	3	19	2	4	7	3	3	2	2	2	1	1	2	..	1	4	..	..	..	4
Totals .....	51	66	126	137	244	73	44	89	139	156	214	227	194	261	307	375	399	328	556	444	306	238	224

WHITELEAS SMALLPOX HOSPITAL.—All the 100 notified cases of Smallpox, and also one from the Rural District, were admitted. There were also admitted to the contact-house at Whiteleas 445 persons for purposes of observation and disinfection. Four deaths occurred in the Hospital during the year (see page 13). The Hospital was cleared of patients on July 4th, and has remained empty since.

The following shows the number of cases of Smallpox treated in the WHITELEAS HOSPITAL since the opening in 1892 :—

Disease	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
Smallpox . . . . .	28	51	14	22	12	3	9	3	2	0	71	37	103	101



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# STATISTICAL TABLES.

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TABLE I.—CAUSES OF DEATH IN SOUTH SHIELDS during 1905, arranged according to the Classification of the Registrar-General.

CAUSES OF DEATH.	All Ages.	AGES AT DEATH.												Total under 5 years.	Total under 1 year.	1-	2-	3-	4-	Total under 5 years.	5-	10-	15-	20-	25-	35-	45-	55-	65-	75-	85 and upwards.	55 to 60																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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TABLE II.—SHOWING CAUSES OF, AND AGES AT, DEATH DURING YEAR 1905, IN OR BELONGING TO SOUTH SHIELDS: ALSO DISTRIBUTION OF DEATHS IN THE DIFFERENT WARDS (L.G.B. TABLE IV.)

Causes of Death.	Deaths at subjoined Ages.							Deaths in or belonging to the different Wards (at all ages).										Deaths in Public Institutions in the Borough.		
	All Ages.	0 to 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and over.	Shield.	St. Hilda.	Holborn.	Beacon.	Bents.	Westoe.	Laygate.	Rekenyke.	Deans.	Tyne Dock.	Residence unknown.	Residents Included in cois. 2-19.	Non-Residents Excluded from cois. 2-19.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Smallpox .....	4	8	13	2	..	4	..	..	1	1	3	3	1	1	..	..	8	..	..	..
Measles .....	24	..	5	1	..	1	..	..	1	..	..	5	12	1	..	4	1	..	3	..
Scarlet Fever .....	6	28	34	2	..	..	..	7	7	..	4	3	3	12	7	9	8	..	..	..
Whooping Cough .....	64	1	13	9	..	1	..	4	4	2	1	6	1	1	..	..	..	..	..	..
Diphtheria and Membranous Croup .....	24	1	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
Croup .....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fever (Typhus .....	23	..	1	2	7	13	..	2	6	3	3	..	1	3	..	3	2	..	16	..
Enteric .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(Other Continued .....	20	2	..	3	1	11	3	1	..	2	2	12	1	7	..	12	1	..	..	..
Epidemic Influenza .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Plague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhea .....	59	30	8	1	..	..	..	2	4	10	1	1	6	13	8	7	7	..	..	..
Enteritis .....	18	11	5	..	1	..	1	2	1	1	3	4	..	2	1	3	1	..	..	..
Puerperal Fever .....	4	1	..	..	1	3	1	1	..	..	1	1	..	..	..	2	1	..	..	..
Erysipelas .....	5	1	2	..	1	3	1	3	..	..	..	..	..	..	..	1	1	..	..	..
Other Septic Diseases .....	9	2	2	2	..	1	2	3	..	..	..	1	..	2	1	1	..	1	..	..
Phthisis (Pulmonary and General Tuberculosis) .....	137	1	7	14	31	81	3	14	11	15	18	11	13	10	11	17	13	4	..	..
Other Tubercular Diseases .....	54	9	16	18	4	7	..	8	4	4	2	2	6	7	13	3	6	1	3	..
Cancer, Malignant Disease .....	71	..	..	..	..	..	19	6	4	8	6	6	7	10	10	3	6	..	..	..
Bronchitis .....	162	62	32	2	2	35	29	18	13	17	7	16	13	27	16	21	14	..	..	..
Pneumonia .....	136	39	37	2	4	42	21	21	3	12	9	14	13	14	11	26	11	2	6	..
Pleurisy .....	3	2	8	1	2	2	3	1	..	..	1	..	2	2	4	5	3	..	1	..
Other Diseases Respiratory Organs .....	20	..	..	..	2	5	3	1	..	..	2	..	3	2	4	5	3	..	..	..
Alcoholism, Cirrhosis of Liver .....	19	..	..	..	..	16	3	3	1	1	1	3	3	..	4	2	1	..	..	..
Veneral Diseases .....	10	8	1	..	..	1	..	5	1	3	1	2	1	1	1	1	1	..	1	..
Premature Birth .....	76	76	..	..	..	..	..	5	1	3	8	6	7	6	8	19	13	..	..	..
Diseases and Accidents of Parturition .....	7	2	..	10	2	5	..	19	10	17	17	3	2	1	18	20	15	1	2	..
Heart Diseases .....	154	..	..	10	9	98	35	19	10	17	17	10	17	10	18	20	15	1	2	..
Accidents .....	48	6	9	4	3	22	4	3	4	2	3	6	2	6	7	6	2	7	3	2
Suicides .....	8	..	..	..	1	7	..	3	1	1	..	1	..	..	1	..	1	..	2	..
Poisonings .....	1	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
All other Causes .....	608	200	45	19	33	178	143	67	32	46	42	49	68	60	73	88	78	5	36	1
All Causes .....	1775	509	237	92	91	588	258	194	102	150	139	151	178	189	198	254	201	19	85	3
Deathrate per 1,000 population .....	..	..	..	..	..	..	..	21.9	20.0	21.2	13.0	13.7	12.5	18.0	15.8	16.4	14.5	..	..	..



TABLE III.—DEATHS DURING THE YEAR 1905 IN SOUTH SHIELDS—CLASSIFIED ACCORDING TO AGES, DISEASES, AND THE MONTHS IN WHICH THEY OCCURRED.

AGES AT DEATH.						CAUSES OF DEATH.														MONTH.	Deaths at all ages.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Under 1 year.	1 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 65 years.	65 and upwards.	Smallpox.	Measles.	Scarlet Fever.	Diphtheria	Membr. Croup.	Whooping Cough.	Enteric or Typhoid.	Typhus.	Other or Doubtful.	Diarrhoea.	Rheumatic Fever.	Erysipelas.	Puerperal Fever.	Other Septic Diseases.			Phthisis (Pulmonary and General Tuberculosis).	Other Tubercular Diseases.	Bronchitis, Pneumonia & Pleurisy.	Violence.	Heart Diseases.	All other Diseases.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	167	163	169	160	140	145	123	142	135	148	141	142	

TABLE IV.—VITAL STATISTICS OF SOUTH SHIELDS  
DURING 1905 AND PREVIOUS YEARS.

(L.G.B. TABLE I.)

Year.	Population estimated to middle of each year.	Births.		Total deaths occurring in in the Borough.				Total Deaths in Public Institutions in the Borough.	Deaths of Non-residents registered in Public Institu- tions in the Borough.	† Deaths of Residents registered in Public Institu- tions beyond the Borough.	Net Deaths at all Ages belonging to the Borough.	
		Number.	* Rate.	Under 1 Year of Age.		At all ages.					Number.	* Rate.
				Number.	Rate per 1,000 Births registered.	Number.	* Rate.					
1	2	3	4	5	6	7	8	9	10	11	12	13
1895	85,910	3,018	35.1	566	187	1,749	20.3	31	13	96	1,832	21.2
1896	87,784	3,140	35.7	521	165	1,526	17.3	33	4	102	1,624	18.5
1897	89,699	3,227	35.9	499	154	1,477	16.4	39	6	81	1,552	17.2
1898	91,656	3,395	37.0	618	182	1,842	20.0	60	11	146	1,977	21.5
1899	93,657	3,371	36.0	593	175	1,829	19.5	75	20	108	1,917	20.7
1900	95,703	3,482	36.3	560	160	1,917	20.0	83	23	160	2,054	21.4
1901	97,800	3,607	36.8	613	169	1,865	19.0	90	8	163	2,020	20.6
1902	103,330	3,759	36.4	563	149	1,862	18.0	90	16	165	2,011	19.4
1903	105,325	3,635	34.5	479	132	1,669	15.8	74	29	165	1,805	17.1
1904	107,334	3,705	34.5	522	141	1,773	16.5	71	1	176	1,948	18.1
Averages for years 1895-1904.	95,820	3,434	35.8	553	161	1,751	18.3	65	13	136	1,874	19.6
1905	109,360	3,501	32.0	500	143	1,607	14.7	88	3	171	1,775	16.2

\* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

† For lists of Institutions, see pages 7 and 8.

NOTE.—The deaths included in column 7 of this Table are the whole of those registered during the year as having actually occurred within the Borough. The deaths included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-Residents" is meant persons brought into the Borough on account of sickness or infirmity and dying in public institutions there, and by the term "Residents" is meant persons who have been taken out of the Borough on account of sickness or infirmity, and have died in public institutions elsewhere.

The "Public Institutions" taken into account for the purposes of this Table are those into which persons are habitually received on account of sickness or infirmity, such as hospitals, workhouses, and lunatic asylums.

Area of Borough in acres (exclusive of area covered by water) . . . . .	2344	Total population at all ages . . . .	100,858	At Census of 1901.
		Number of inhabited houses . . . .	12,465	
		Average No. of persons per house	8.1	
		Do. do. tenement	4.6	



TABLE V — BIRTH-RATES AND DEATH-RATES, SOUTH SHIELDS, 1871-1905 (PER 1,000 OF THE POPULATION.)

YEAR.	Population.	Birth-rate.	Deaths under 1 year per 1,000 Births.	Death-rate.	Total Zymotic Death-rate.	Smallpox.	Measles.	Scarlet Fever.	* Diphtheria.	Whooping Cough.	" Fever."	Diarrhea.	Erysipelas	Puerperal Fever.	Phthisis.	(Other Tubercular Diseases.	Cancer.	Dis. of Circulatory System.	Dis. of the Nervous System.	Dis. of the Respiratory System.	Dis. of the Urinary System.	Dis. of the Reproductive System.	Violence.
Mean 1871-80 ..	....	43.1	164	25.5	6.0	.858	.42	1.44	.12	.78	.79	1.59	.25	1.91	..	..	..	1.23	..	..	..	..	.84
Mean 1881-90 ..	....	38.8	140	20.5	2.3	.012	.34	.45	.10	.44	.19	.78	.12	1.84	..	..	..	1.64	..	..	..	..	.59
1801 .....	78,920	37.4	176	22.1	2.85	.000	.90	.11	.29	.60	.20	.73	.14	1.54	.89	.39	.39	1.59	2.96	4.32	.31	.16	1.01
1802 .....	80,530	37.0	143	19.4	1.66	.000	.29	.12	.09	.33	.21	.55	.18	1.51	1.52	.60	.60	1.82	2.87	3.41	.43	.07	.67
1803 .....	82,284	35.4	180	22.4	3.18	.036	.38	.38	.06	.36	.37	1.56	.09	1.99	1.28	.48	.48	1.93	2.79	2.95	.39	.15	.81
1804 .....	84,077	35.9	138	17.3	1.36	.000	.19	.39	.05	.17	.20	.42	.06	1.41	.82	.71	.71	1.72	2.22	3.14	.46	.10	.77
1805 .....	85,910	35.1	187	21.2	3.36	.000	.29	.18	.18	.90	.34	1.42	.05	1.65	1.09	.62	.62	1.60	3.02	5.04	.31	.16	.66
Mean 1891-95 ..	....	36.1	165	20.5	2.48	.007	.41	.23	.14	.47	.26	.94	.10	1.62	1.12	.56	.56	1.73	2.77	3.77	.38	.13	.78
1896 .....	87,784	35.7	165	18.5	2.49	.000	.92	.18	.10	.42	.28	.58	.01	1.61	1.11	.61	.61	2.01	2.59	3.14	.28	.11	.53
1897 .....	89,699	35.9	154	17.2	1.83	.000	.28	.15	.09	.25	.16	.88	.07	1.40	.92	.59	.59	1.41	3.33	2.66	.27	.12	.62
1898 .....	91,651	37.0	182	21.5	3.09	.000	.56	.25	.00	.77	.39	1.11	.11	1.58	.88	.64	.64	1.79	2.83	3.84	.31	.14	.80
1899 .....	93,657	36.0	175	20.7	2.33	.000	.04	.12	.06	.12	.47	1.41	.08	1.57	.68	.59	.59	1.43	2.65	3.98	.57	.17	.90
1900 .....	95,703	36.3	160	21.4	2.33	.000	.55	.21	.12	.67	.19	.55	.12	1.83	.79	.73	.73	1.96	2.34	3.67	.48	.11	1.07
Mean 1896-1900 ..	....	36.2	167	19.8	2.41	.000	.47	.20	.07	.44	.30	.90	.08	1.59	.88	.71	.71	1.72	2.75	3.46	.38	.13	.78
Mean 1891-1900 ..	....	36.1	166	20.1	2.44	.003	.44	.21	.10	.45	.28	.92	.09	1.60	1.00	.63	.63	1.72	2.76	3.61	.38	.13	.78
Mean 1871-1900 ..	....	39.3	157	22.0	3.60	.291	.40	.70	.11	.56	.42	1.10	.15	1.78	..	..	..	1.53	..	..	..	..	.74
1901 .....	97,800	36.8	169	20.6	3.36	.000	.68	.60	.14	.10	.22	1.60	.09	1.63	.71	.68	.68	1.65	2.83	2.84	.51	.10	.69
1902 .....	103,330	36.4	149	19.4	2.62	.039	.92	.38	.06	1.01	.06	.16	.14	1.80	.64	.63	.63	1.79	2.83	3.15	.37	.21	.73
1903 .....	105,325	34.5	132	17.1	1.01	.009	.14	.11	.15	.03	.09	.47	.08	1.67	.71	.69	.69	1.59	2.45	3.16	.45	.21	.55
1904 .....	107,334	34.5	141	18.1	1.77	.065	.26	.07	.11	.59	.08	.57	.12	1.52	.81	.62	.62	1.44	2.22	3.22	.42	.11	.53
1905 .....	109,360	32.0	145	16.2	1.86	.036	.22	.05	.22	.58	.21	.54	.13	1.26	.49	.65	.65	2.23§	1.14§	2.94	.45	.12	.52
Mean 1901-1905 ..	....	34.8	148	18.3	2.12	.030	.44	.24	.14	.46	.13	.67	.11	1.58	.67	.65	.65	1.74	2.29	3.06	.44	.15	.60

\* Includes Membranous Croup from 1903.

§ Apoplexy has this year been transferred from Diseases of the Nervous System to Diseases of the Circulatory System. Following the classification of previous years, the rates would have been, Circ. System, 1.54; Nervous System, 1.83.

TABLE VI.—INFANTILE MORTALITY—SOUTH SHIELDS—  
DURING THE YEAR 1905.

Deaths from stated Causes in Weeks and Months under  
One Year of Age.

(L. G. B. TABLE V.)

[illegible]

TABLE VII.—CASES OF INFECTIOUS DISEASE NOTIFIED AND REMOVED TO HOSPITAL IN SOUTH SHIELDS DURING THE YEAR 1905. CLASSIFIED ACCORDING TO WARD AND AGE.

(L.G.B. TABLE III.)

Notifiable Disease.	Cases Notified in whole Borough.						Total Cases Notified in each Ward.										No. of Cases removed to Hospital from each Ward.													
	At following Ages—Years.						Shields.	St. Hilda.	Holborn.	Beacon.	Bents.	Westoe.	Laygate.	Reken dyke.	Deans.	H.	Tyne Dock.	Total.												
	Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upwards.																								
Smallpox .....	100	1	5	9	35	48	2	..	4	14	..	6	12	3	10	38	13	..	4	14	..	6	12	3	10	..	38	13	100	..
Cholera .....	102	2	32	55	7	6	..	29	1	4	..	23	17	3	10	23	7	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria .....	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Membranous Group .....	117	6	3	8	10	79	11	10	5	9	13	10	14	9	14	19	14	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	227	4	85	123	13	2	..	12	4	4	14	16	45	21	37	53	21	..	3	4	9	15	26	15	30	..	38	8	160	..
Scarlet Fever .....	..	..	7	24	21	32	..	7	8	7	14	4	8	8	9	10	9	..	5	5	8	3	3	3	7	..	8	5	56	..
Typhus Fever .....	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Enteric Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Relapsing Fever .....	..	..	..	..	..	4	..	..	..	..	..	1	..	..	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever .....	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Interperal Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Plague .....	327	..	..	..	..	..	..	35	4	9	28	12	48	15	63	70	43	..	..	..	..	..	..	..	..	..	..	..	..	..
Chickenpox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals .....	962	..	..	..	..	..	..	73	26	47	75	72	144	59	144	214	108	17	14	23	17	24	42	23	47	84	26	317	..	..

BOROUGH ISOLATION HOSPITALS. { Deans Fever Hospital, situate in Deans Ward.  
Whiteleas Smallpox Hospital, situate  $\frac{1}{2}$  mile South of the Borough Boundary  
in the South Shields Rural District.

TABLE VIII.—COMPARATIVE RATES OF PREVALENCE OF SICKNESS AND DEATH FROM  
INFECTIOUS (NOTIFIABLE) DISEASES.

(Rates calculated per 1,000 of the population, estimated to the middle of each year).

Year.	Smallpox.		Cholera.		Erysipelas.		Diphtheria and Membran- ous Croup.		Scarlet Fever.		Typhus Fever.		Enteric Fever.		Continued and Relapsing Fever.		Puerperal Fever.		Plague.	
	Attack.	Death.	Attack.	Death.	Attack.	Death.	Attack.	Death.	Attack.	Death.	Attack.	Death.	Attack.	Death.	Attack.	Death.	Attack.	Death.	Attack.	Death.
1895	.25	.000	..	..	.90	.03	.40	.18	4.4	.18	..	..	1.77	.34	.29	..	.04	.01	..	..
1896	.13	.000	..	..	1.25	.01	.44	.10	5.4	.18	..	..	1.43	.26	.24	.01	.04	..	..	..
1897	.03	.000	..	..	1.16	.04	.42	.09	7.1	.15	..	..	.86	.15	.15	.01	.10	.03	..	..
1898	.06	.000	..	..	1.44	.02	.18	..	6.9	.25	..	..	1.80	.39	.08	..	.08	.06	..	..
1899	.02	.000	..	..	.92	.03	.35	.06	7.1	.21	..	..	1.90	.47	.02	..	.04	.02	..	..
1900	.02	.000	..	..	.83	.05	.30	.12	5.3	.21	..	..	.74	.20	.06	..	.04	.02	..	..
1901	..	.000	..	..	.80	.03	.36	.14	12.5	.60	..	..	1.17	.22	.02	..	.05	.01	..	..
1902	.68	.039	..	..	.95	.03	.26	.06	8.0	.38	..	..	.64	.03	..	..	.07	.03	..	..
1903	.33	.009	..	..	1.04	.03	.79	.15	3.6	.11	..	..	.55	.09	..	..	.06	.02	..	..
1904	.94	.065	..	..	.91	.03	.68	.11	2.9	.07	..	..	.54	.07	.01	.01	.02	.02	..	..
Av'ge	.25	.011	..	..	1.02	.03	.42	.10	6.3	.23	..	..	1.14	.22	.09	.003	.05	.02	..	..
1905	.91	.036	..	..	1.07	.05	.94	.22	2.1	.05	..	..	.77	.21	..	..	.04	.04	..	..

TABLE IX.—SUMMARY OF METEOROLOGICAL OBSERVATIONS, 1905, TAKEN AT 9 A.M. DAILY, AT THE NORTH MARINE PARK, SOUTH SHIELDS: ABOUT 20 FEET ABOVE SEA LEVEL.

MONTH.	Barometer. (corrected to sea level and 32 deg. F.)	Mean Temperature.	Highest Temperature Registered.	Lowest Temperature Registered.	Mean Temperature : 1 foot Earth Thermometer.	Mean Temperature : 4 feet Earth Thermometer.	Mean Humidity.	Total Rainfall (in inches).	Greatest fall in any twenty-four hours.	Number of days on which rain fell (.01 ins. or more).	Anemometer— Mean Daily Mileage.	DIRECTION OF WIND. NUMBER OF DAYS.								
												N.E.	E.	S.E.	N.	W.	N.W.	S.	S.W.	Clim.
January .....	30.119	40.0	54.0	26.5	36.9	45.2	82.2	0.24	0.08	7	444	..	..	1	12	1	5	11	1	
February ..	30.011	40.8	57.5	25.5	38.4	44.6	85.0	0.50	0.21	12	407	1	2	1	10	2	..	11	..	
March .....	29.569	43.9	57.5	33.0	40.8	44.7	82.8	1.35	0.52	15	366	2	1	1	7	2	7	9	2	
April .....	29.796	44.2	58.0	25.0	42.9	45.8	82.6	1.84	0.28	21	396	4	3	3	2	6	4	3	5	
May .....	30.096	51.1	74.0	34.0	51.7	48.2	77.1	0.49	0.17	8	318	8	1	1	3	6	2	3	7	
June .....	29.976	56.7	75.0	45.0	61.3	52.3	77.0	0.65	0.51	5	334	10	7	1	4	1	..	3	4	
July .....	29.979	63.3	81.5	47.5	64.8	56.2	69.3	1.35	0.61	10	269	6	2	..	3	10	4	2	4	
August ....	29.814	58.7	72.5	45.0	57.6	56.4	76.6	2.10	0.48	17	320	3	4	1	5	10	..	5	3	
September ..	29.922	55.5	71.0	39.0	53.4	55.3	78.9	1.41	0.30	15	354	5	1	1	5	5	3	2	7	
October ....	29.961	44.5	65.0	31.5	44.0	52.6	81.4	3.51	0.74	19	368	2	..	..	6	13	5	3	2	
November ...	29.640	41.7	52.0	26.5	41.1	49.3	88.7	3.66	0.66	21	388	..	7	2	2	7	1	6	5	
December ..	30.051	43.2	54.0	33.0	42.6	47.9	84.4	0.22	0.06	9	302	..	3	..	..	7	1	11	9	
TOTALS ..	..	..	..	..	..	..	..	17.32	..	159	..	41	31	11	32	94	25	50	77	4
AVERAGES..	29.911	48.7	..	..	47.9	49.9	80.5	..	..	..	355	..	..	..	..	..	..	..	..	..

The highest temperature registered during the year was 81.5° Fahr., on July 14th, and the lowest temperature 25° Fahr. on April 8th. The greatest rainfall during any 24 hours was 0.74 inch on October 23rd.



## General Sanitary Work.

**PUBLIC HEALTH ACTS.**—A considerable amount of work has been done during the year, particulars of which are given in the Tables. Legal proceedings were taken in three instances. In the first case the Magistrates ordered the owner to trap two scullery sink waste pipes. In the second case the Magistrates refused to make an order for the owner to abolish a number of privy middens; and in the third case a butcher was fined £10 and costs for having had in his possession for the purpose of preparation for sale and intended for the food of man, a carcase of meat affected by tuberculosis. Regarding all the other meat condemned and destroyed during the year (see Table H.), the owners had called in the Inspector.

The Health Department was successful in preventing the conversion of six dwellings into one-roomed tenements, some of which would have been without proper yard space and sufficient accessible sanitary conveniences. Such a sub-division is considered by the Public Health Acts as the erection of a new building, and careful supervision is required to prevent the formation of insanitary slum property.

**HOUSING OF THE WORKING CLASSES ACT, 1890, PART II.**—On December 19th, representation was made to the Health Committee by the Medical Officer of Health that the property mentioned below was not reasonably capable of being made fit for human habitation, and the Committee decided to take action.

Situation.	Number of Rooms.	Number of Tenants.	Number of Persons.	Date of M.O.H.'s Representation.
42 Hill Street . . . . .	4	4	10	December 19th., do.
7-10 Todd's Court . . . .	8	4	11	
TOTAL . . . . .	12	8	21	

The closing order obtained for 18 and 19 Lower Thames Street and 1 and 2 Studley Stairs in 1903, was determined by the Magistrates on July 4th, 1905, the premises having been made habitable.

FACTORY AND WORKSHOP ACT.—Particulars of Inspections and Defects Found, etc., are given in the Table below. Plans were passed for three new bakehouses.

# FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES AND HOMEWORK.

## I.—INSPECTION.

(Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.)

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions.
FACTORIES .....	16	..	..
(Including Factory Laundries.)			
WORKSHOPS .....	302	17	..
(Including Workshop Laundries)			
WORKPLACES .....	1	..	..
HOMEWORKERS' PREMISES .....	1	..	..
Total .....	320	17	..

## II.—DEFECTS FOUND.

Particulars.	Number of Defects.			Number of Prosecutions.
	Found.	Remedied.	Referred to H.M. Inspector.	
<i>Nuisances under the Public Health Acts : *</i>				
Want of cleanliness .....	10	10	..	..
Want of ventilation .....	..	..	..	..
Overcrowding .....	..	..	..	..
Want of drainage of floors .....	..	..	..	..
Other nuisances .....	4	4	..	..
†Sanitary accommodation—				
insufficient .....	1	1	..	..
unsuitable or defective .....	5	5	..	..
not separate for sexes .....	4	1 remedied. 3 deferred.	..	..
<i>Offences under the Factory and Workshop Act. —</i>				
Illegal occupation of underground bakehouse (s. 101) .....	..	..	..	..
Breach of special sanitary requirements for bakehouses (ss. 97 to 100) .....	..	..	..	..
Failure as regards list of outworkers (s. 107) .....	..	..	..	..
Giving out work to be done in premises which are—				
unwholesome (s. 108) .....	..	..	..	..
infected (s. 110) .....	..	..	..	..
Allowing wearing apparel to be made in premises infected by scarlet fever or smallpox (s. 109) .....	..	..	..	..
Other offences .....	..	..	..	..
Total .....	24	21	..	..

\* Including those specified in sections 2, 3, 7, and 8 of the Factory Act as remediable under the Public Health Acts.

† Section 22 of the Public Health Acts Amendment Act, 1890, has been adopted by the District Council. The sufficiency and suitability of sanitary accommodation for persons employed in factories and workshops are decided on the merits of each case.

## III.—OTHER MATTERS.

Class.	Number.	
Matters notified to H.M. Inspectors of Factories :—		
Failure to affix Abstract of the Factory and Workshop Act (s. 133).	3	
Action taken in matters referred by H.M. Inspectors as remediable under the Public Health Acts, but not under the Factory Act (s. 5) —		
Notified by H.M. Inspectors .....	..	
Reports (of action taken) sent to H.M. Inspectors .....	..	
Other .....	..	
Underground Bakehouses (s. 101) :—		
Certificates granted during the year .....	..	
In use at the end of the year .....	3	
Homework :—		
<i>Lists of Outworkers</i> (s. 107) :—		
Lists received .....	2	10
Addresses of outworkers forwarded to other Authorities .....	2	2
"    "    "    received from other Authorities .....		
<i>Homework in unwholesome or infected premises</i> :—		
Notices prohibiting homework in unwholesome premises (s. 108) .....		
Cases of infectious disease notified in homeworkers' premises ..	1	..
Orders prohibiting homework in infected premises (s. 110) ..	1	..
Workshops on the Register (s. 121) at the end of the year :—		
Bakehouses .....	38	
Millinery .....	38	
Dressmaking .....	32	
Tailoring .....	26	
Joinery .....	16	
Cabinet-making .....	15	
Shoemaking .....	12	
Others .....	53	
Total number of workshops on Register .. .....	230	

**MIDWIVES ACT.**—Thirty Midwives certified under the Act have given notice of their intention to practise in the Borough. The appointment of a female Inspector and Health Visitor who would supervise them was being considered at the end of the year.

**FOOD AND DRUGS ACTS.**—130 of the 150 samples taken were found to be genuine. This is a considerable improvement on last year, when 23 per cent. of the samples were defective. Details of the samples taken and the six prosecutions which followed are given in Tables G. and I. The use of preservatives in milk seems less general than last year. A circular letter was sent to all the milk sellers in the Borough on November 24th, informing them that the Council had decided to take action whenever preservatives were discovered in milk in the Borough.



COMMON LODGING HOUSES.—The Inspectors made 206 visits to these houses and generally found them in a satisfactory condition. Smallpox occurred in a Common Lodging House in January, and it was only with difficulty that the disease was stamped out. Details of this are given elsewhere in the report.

The following Table gives the number of Common Lodging Houses for each year since 1892 :—

	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
Number existing ..	33	32	18	17	17	18	21	24	24	22	22	23	22	24
Accommodation ..	900	801	335	370	374	..	..	701	705	968	668	695	678	820

SEAMEN'S BOARDING HOUSES.—The Inspectors made 475 visits to these houses. It was necessary to serve notices on three occasions on account of insanitary conditions.

The following Table shows the number of Seamen's Boarding Houses for 1905 and previous years.

	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
Number existing ..	..	..	120	..	..	..	..	80	73	71	79	78	79	75
Accommodation ..	..	..	..	..	..	..	..	775	760	738	862	866	840	812

HOUSES LET IN LODGINGS.—There are now 15 houses on the register, that is four more than the previous year.

BACK LANES AND YARDS.—Inspection of the back lanes and yards has been carried out during the year both occasionally and systematically, and the tenants have been advised or induced to pay attention to general cleanliness, particularly to the condition of the gullies, yard surfaces, and privies. Householders have been warned to discontinue the practice of depositing refuse and waste water in the back streets.

PRIVATE SLAUGHTERHOUSES, COWSHEDS, DAIRIES, AND MILK-SHOPS, ICE CREAM SHOPS.—These have been regularly inspected during the year.

FRIED FISH SHOPS.—The obsolete cooking apparatus in several of these shops have been replaced during the year by more suitable modern arrangements.

PUBLIC SLAUGHTER HOUSE.—The site for the Public Slaughter House has been cleared, and the building has commenced.

INFECTIOUS DISEASES HOSPITAL.—The Committee advertised, in March, for a site for a new Hospital for Infectious Diseases. The Sub-Committee inspected the sites offered, but no site has yet been chosen.

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# REPORTS

OF THE

## INSPECTORS OF NUISANCES

AND THE

### INSPECTOR OF MEAT, FOOD AND DRUGS, &c.,

*Being a Summary of their Monthly Reports to the  
Health Committee from December 19th, 1904,  
to December 17th, 1905.*

TABLE A.—NUISANCES FOR THE ABATEMENT OF WHICH  
PRELIMINARY NOTICES HAVE BEEN ISSUED.

NUISANCES.	J. J. Hudnarch.	W. Clark.	R. W. Weir.	R. Ayre.	W. Hill.	Totals.
Privy Middens .....	..	..	..	10	..	10
Privies : Insufficient .....	..	..	4	9	1	14
Offensive (wooden) .....	..	1	..	..	..	1
Filthy .....	..	2	9	2	18	31
Under inhabited room .....	..	..	..	1	..	1
Liquid flowing from .....	..	8	68	23	36	135
Dilapidated .....	..	..	6	5	..	11
Defective Roof .....	..	..	1	6	11	18
Defective Wall .....	..	1	..	..	3	4
Defective Pail .....	..	..	..	1	..	1
Absence of hatches, doors, seats, etc.	5	25	77	24	57	188
W.C.'s : Choked .....	..	1	1	6	5	13
Choked ("Fowler" type) .....	..	..	1	4	2	7
Obsolete ("Fowler" type) .....	..	..	..	2	..	2
Filthy Basins .....	..	..	4	1	7	12
Defective Basins .....	..	1	6	4	5	16
Defective Joints .....	..	..	..	1	..	1
Defective Soilpipe .....	..	1	..	..	..	1
Defective Cistern .....	..	..	1	7	4	12
Absence of Flush .....	..	..	1	5	..	6
Urinals (P.H.) : Insufficient Flush .....	..	1	1	..	..	2
Drains : Choked .....	5	19	49	27	30	130
Defective .....	..	5	7	16	6	34
Absence of .....	..	1	2	..	1	4
Absence of (basement) .....	..	1	..	..	..	1
Gully : absence of .....	..	8	5	1	..	14
defective and obsolete .....	..	3	9	8	8	28
Filthy .....	..	2	4	1	3	10
Absence of Grate .....	..	2	2	1	5	10
Wash-ups : Insanitary .....	..	..	..	1	..	1
Defective .....	..	..	2	2	..	4
Defective Joints .....	..	4	1	..	1	6
Untrapped Wastepipes .....	4	44	49	21	32	150
Choked Wastepipes .....	..	..	..	1	..	1
Improper Wastepipes .....	..	..	1	..	..	1
Absence of Hopper-heads .....	..	8	..	..	..	8
Choked Hopperheads .....	..	..	1	..	..	1
Baths : Untrapped wastepipes .....	..	..	..	1	1	2
Dwellings : Filthy .....	2	4	4	..	4	14
Filthy Common Staircase .....	..	..	..	1	..	1
Overcrowded .....	..	..	..	1	..	1
Damp .....	..	1	..	1	..	2
Defective Window Sashes .....	..	..	..	..	1	1
Defective Roof .....	..	2	1	12	1	16
Defective Wall .....	..	..	..	1	..	1
Defective Floor .....	..	..	..	6	2	8
Unventilated Floor .....	..	..	..	3	..	3
Defective and choked Spouts, etc.	..	13	12	20	5	50
Absence of Spouts, etc. ....	..	1	..	4	2	7
Absence of Water Supply .....	1	1	9	4	4	19
Escape of Coal Gas .....	..	..	..	1	..	1
Making into Tenements .....	..	..	..	1	..	1
Room unfit for habitation .....	..	..	..	1	..	1
General Dilapidation .....	..	..	..	1	..	1
Cellars : Unfit for habitation .....	..	..	..	1	..	1
Permitting to occupy .....	..	..	..	2	..	2
Workshops : Requiring Linewashing .....	..	..	7	..	..	7
Defective Roof .....	..	..	2	..	..	2

TABLE A.—Continued.

NUISANCES.	J. J. Hindmarch.	W. Clark.	R. W. Weir.	R. Ayte.	W. Hill.	Totals.
Workshops : Unscreened privy .....	..	1	1	..	..	2
Badly lighted privy .....	..	..	1	..	..	1
Absence of privy accommo- dation .....	..	..	1	..	1	2
Absence of W.C. flush .....	..	1	..	..	..	1
Foul W.C. basin .....	..	1	..	..	..	1
Absence of Water Supply .....	..	..	..	..	1	1
Seamen's Lodging House : Dirty .....	..	..	..	1	..	1
Foul W.C. Basin .....	..	..	1	..	..	1
Slops not removed .....	..	..	1	..	..	1
Common Lodging House : Defective Floor ..	..	..	..	1	..	1
Houses-let-in-Lodgings : Choked Drain .....	..	..	..	1	..	1
Filthy premises .....	..	..	..	1	..	1
Yards and Areas : Defective and Unpaved ..	1	36	19	102	72	230
Filthy .....	6	4	35	6	20	71
absence of back door .....	..	1	5	8	4	18
Absence of back door sills .....	..	..	..	10	..	10
Rain-water Cisterns (underground) :						
Foul .....	..	3	2	1	2	8
Dangerous .....	..	1	..	..	..	1
Absence of Hatch .....	..	1	..	..	..	1
Defective hatch .....	..	..	..	..	2	2
Outbuildings : Dilapidated .....	1	..	1	9	11	22
Filthy .....	..	2	150	4	7	163
Stables : Accumulation of Manure .....	..	..	..	..	1	1
Foul Gully .....	..	..	..	..	1	1
Absence of Manure-pit .....	..	..	..	1	..	1
Absence of Impervious Paving .....	..	..	..	1	..	1
Absence of drainage .....	..	1	..	1	..	2
Water flowing over Street .....	..	2	..	..	..	2
Slaughterhouse : Filthy .....	..	..	..	1	..	1
Accumulation of Refuse .....	1	2	11	9	26	49
„ „ Bones .....	..	1	..	1	..	2
„ „ Stagnant Water .....	..	..	..	..	1	1
„ „ Fish Boxes .....	..	..	..	1	..	1
Emptying Slop Water on Public Street .....	..	..	..	..	2	2
Emptying offensive matter on public gully ..	..	..	..	..	1	1
A passage used as a Public Convenience .....	..	..	..	1	..	1
Filthy Shutter-box .....	..	1	..	..	..	1
Keeping animals .....	3	1	1	4	4	13
Smoke nuisance .....	..	1	..	1	..	2
TOTALS .....	29	220	576	416	411	1652
Nuisances for which Statutory Notices have been served .....	..	20	18	90	11	139
Letters written .....	..	29	72	59	29	199
Notices to Borough Surveyor .....	..	8	9	3	3	23
Notices to Scavenging Superintendent .....	..	13	10	6	1	30

TABLE B.—STRUCTURAL WORK CARRIED OUT DURING  
THE YEAR 1905.

	W. Clark.	R. W. Weir.	R. Ayre.	W. Hill.	Totals.
Privy Middens : demolished .....	..	..	1	..	1
Privy Receptacles: provided in lieu of Privy Middens provided in lieu of " Fowler "	2	..	4	2	8
Closet .....	..	1	..	..	1
rebuilt .....	..	..	2	..	2
repaired .....	..	2	12	26	40
additional .....	..	..	4	1	5
Pail Closets : provided in lieu of privy receptacles ..	..	..	2	..	2
New pail provided .....	..	..	1	..	1
W.C.s : Abolished .....	..	..	..	1	1
Provided in lieu of Privy Middens .....	15	..	2	..	17
Provided in lieu of Privy Receptacles .....	1	..	..	..	1
Provided in lieu of " Fowler " Closets .....	..	1	1	..	2
Additional .....	..	4	9	..	13
rebuilt .....	..	..	5	..	5
Repaired .....	..	..	..	3	3
Defective Basins Replaced .....	..	6	10	5	21
New Cisterns provided .....	..	1	3	..	4
Cisterns repaired .....	..	..	7	5	12
Flush-pipes provided .....	..	..	3	..	3
" Fowler " Closets abolished .....	..	..	1	..	1
Urinal (P.H.) : Repaired .....	..	..	..	1	1
Flush provided .....	..	1	..	..	1
Drains : Abolished .....	..	..	1	1	2
Provided .....	..	5	4	3	12
Relaid .....	13	5	27	6	51
Repaired .....	..	..	9	5	14
Soilpipes repaired .....	..	..	1	2	3
Ventilators repaired .....	..	..	..	2	2
Inspection Chambers provided .....	3	..	6	..	9
Inspection Chambers provided with discon- necting traps .....	..	..	6	..	6
Obsolete or defective Gullies replaced .....	24	11	41	22	98
Additional Gullies provided .....	12	4	10	5	31
Grease Trap provided .....	1	..	..	..	1
Cellar Pump repaired .....	..	..	..	1	1
Wastepipes trapped : bath .....	1	..	..	1	2
Wastepipes trapped : Scullery .....	42	55	8	38	143
Wastepipes provided : Scullery .....	..	..	..	1	1
Wastepipe disconnected from drain .....	..	..	..	1	1
Wastepipe disconnected from rain water downcomer .....	..	..	1	..	1
Wastepipes renewed .....	..	..	1	..	1
Hopper-head provided .....	17	..	5	2	24
Metal Washups replaced by earthenware ..	3	4	5	7	19
Additional earthenware washups provided ..	1	1	..	..	2
Dwellings : Site concreted and subsoil drained ....	1	..	..	..	1
Dampness remedied .....	..	1	..	..	1
Roofs repaired .....	6	1	13	8	28
floors relaid with wood .....	..	..	12	5	17
Floors relaid with Concrete .....	..	..	3	..	3
Floors ventilated .....	..	..	8	..	8
Gables Cemented .....	..	..	2	..	2
Walls repaired .....	..	..	..	4	4
Staircase Wall rebuilt .....	..	..	..	1	1
Stair Landing repaired .....	..	..	..	1	1
Passage cemented .....	..	..	..	1	1
Spouts and downcomers renewed ....	11	10	35	7	63



TABLE B.—Continued.

	W. Clark.	R. W. Weir.	R. Ayre.	W. Hill.	Totals.
Dwellings : Spouts and downcomers repaired .....	..	..	12	..	12
Basement Rooms lighted .....	..	..	2	..	2
Cellars closed (for habitation) .....	..	..	2	..	2
Cellars closed (ice cream making) .....	..	..	1	..	1
Room closed (for habitation) .....	..	..	1	..	1
Prevention of conversion of houses into one room tenements (not satisfying sanitary requirements) .....	..	..	6	..	6
Obstructive building removed .....	..	..	1	..	1
Backyards : Relaid .....	40	6	70	45	161
Repaired .....	4	19	23	7	53
Enclosed .....	..	..	2	..	2
Sills provided to back door way .....	..	..	9	..	9
Embankment Wall repaired .....	..	..	..	1	1
Washhouse : Floors relaid .....	43	..	44	32	119
Repaired .....	..	..	..	3	3
Rebuilt .....	..	..	..	1	1
Erected .....	..	..	4	..	4
Cellar (P. H.) : Floor relaid .....	..	..	..	2	2
Front and back Areas cemented .....	7	..	4	..	11
Back streets cemented .....	..	..	2	..	2
Rain-water Cisterns (underground) : filled in .....	2	1	5	1	9
Cleaned out ..	7	..	..	1	8
Smoke nuisance : New Chimney erected .....	..	..	1	..	1
Chimney altered .....	1	..	..	..	1
Stable : Manure receptacles provided .....	2	..	..	..	2

TABLE C.—SUMMARY OF VISITS OF THE INSPECTORS  
OF NUISANCES.

	J. J. Hindmarch.	W. Clarke.	R. W. Weir.	R. Ayre.	W. Hill.	T. R. Howitt (Temp. Insp.)	Totals.
On Complaint of Nuisances .....	20	106	135	130	76	..	467
To test drains .....	1	24	17	14	9	..	65
„ Seamen's Boarding Houses .....	..	52	212	16	195	..	475
„ Common Lodging Houses .....	..	..	48	93	65	..	206
„ Houses-let-in-Lodgings .....	..	3	..	13	..	..	16
„ Workshops, etc. ....	..	139	87	18	35	..	279
On notification of Infectious Disease	27	274	242	112	146	2	803
To supervise home-treated cases ....	1	412	93	17	49	..	572
„ disinfect houses and remove cases to Hospital .....	7	290	162	59	59	7	584
<i>Re</i> Smallpox Contacts .....	..	2316	1824	128	701	488	5457
„ Cholera Contacts .....	..	18	2	..	3	..	23
„ Plague Contacts .....	..	6	..	..	..	..	6
„ Phthisis Deaths .....	7	16	45	24	35	..	127
„ Diarrhœa Deaths .....	..	12	18	6	26	..	62
„ School-reported cases .....	1	421	293	242	182	14	1153
Visits of Inspection .....	505	2747	2019	2898	1950	7	10126
To Works in progress .....	10	695	422	752	319	..	2198
„ back streets .....	..	12	229	..	60	15	316
Supervising the removal of accumu- lations of refuse .....	..	..	..	63	..	..	63
<i>Re</i> Smoke Observation .....	..	..	..	2	..	..	2
To Ice Cream Shops .....	..	..	..	8	..	..	8
„ Offensive Trades .....	..	..	..	2	..	..	2
Taking samples with Food Inspector.	..	138	..	..	6	..	144
Interviews and appointments .....	..	..	88	26	7	..	121
Other visits .....	..	1	..	24	..	..	25
<b>TOTAL VISITS .....</b>	<b>579</b>	<b>7682</b>	<b>5936</b>	<b>4647</b>	<b>3923</b>	<b>533</b>	<b>23300</b>

TABLE D.—CASES REMOVED TO HOSPITAL.

Disease.	J. J. Hindmarch.	W. Clark.	R. W. Weir.	R. Ayre.	W. Hill.	Totals.
Scarlet Fever .....	10	45	46	24	32	157
Enteric Fever .....	1	6	21	14	12	54
Smallpox .....	9	46	36	16	1	108
Diphtheria .....	1	..	..	..	..	1
Suspects .....	..	3	..	1	..	4
TOTALS .....	21	100	103	55	45	324

TABLE E.—DISINFECTION.

	J. J. Hindmarch.	W. Clark.	R. W. Weir.	R. Ayre.	W. Hill.	Totals.
Rooms fumigated .....	8	193	215	87	73	576
Bundles of Bedding, etc., sent for Steam Disinfection ....	9	383	189	93	79	753

TABLE F.—SUMMARY OF VISITS OF THE INSPECTOR OF MEAT, ETC., TO THE VARIOUS TRADES UNDER HIS SUPERVISION.

Places Inspected.	Number Existing.	Number of Visits.
Milkshops and Dairies.....	245	559
Cowsheds .....	11	54
Bakehouses .....	38	98
Slaughtering Places .....	125	2407
Triperies .....	5	61
Fried-Fish Shops .....	varies.	126
Fish-Curing Places .....	5	7
Gut-Scraping Places.....	2	9
Tallow Boiling Places .....	2	3
Ice-Cream Shops .....	varies.	9
Pickling Stores .....	3	3
TOTAL VISITS .....		3336

## TABLE G.—SALE OF FOOD AND DRUGS ACTS.

The undermentioned samples have been analysed by the Public Analyst for South Shields during 1905.

Description of Samples.	Number taken.	Analyst's Report.	Proceedings and Result.
Butter .....	18	Genuine ..... 16	—
		0.20% Boric Acid added .... 1	—
		Slight trace Boric Acid added 1	—
Cheese .....	4	Genuine ..... 4	—
Chocolate .....	2	.. ..... 2	—
Ginger (ground)..	1	.. ..... 1	—
Gregory's powder	1	.. ..... 1	—
Jam .....	1	.. ..... 1	—
Lard .....	6	.. ..... 6	—
Liquorice Powder	1	.. ..... 1	—
Marmalade ....	1	.. ..... 1	—
		.. ..... 64	—
		Poor quality ..... 1	—
		Doubtful ..... 1	—
		Trace of Formaldehyde added 1	—
		1 part per 100,000 of Formalin added ..... 1	—
		0.052% Boric Acid added .... 1	—
		0.074% .. .. 1	—
		2.9 % deficient in non-fatty solids ..... 1	—
Milk .....	81	3.4% .. .. 1	—
		3.3% .. .. natural fat 1	—
		5.0% .. .. 1	Cautioned.
		10.0% .. .. 1	Cautioned.
		20.0% .. .. 1	20s. and costs.
		20.0% .. .. 1	20s. and costs.
		26.0% .. .. 1	40s. and costs.
		28.3% .. .. 1	20s. and costs.
		16.6% .. .. and	
		4.2% added water ..... 1	20s. and costs.
		16.3% added water ..... 1	20s. and costs.
Mustard .....	5	Genuine ..... 5	—
Olive Oil .....	1	.. ..... 1	—
Pepper .....	9	.. ..... 9	—
Rum .....	4	.. ..... 4	—
Salvolatile .....	1	.. ..... 1	—
Sweets .....	2	.. ..... 2	—
Syrup (Golden) .	1	.. ..... 1	—
Tea .....	2	.. ..... 2	—
Treacle .....	1	.. ..... 1	—
Vinegar (Malt) .	4	.. ..... 4	—
Whisky .....	4	.. ..... 3	—
		26.5% under proof ..... 1	Cautioned.
Total 150. of which 130 were Genuine.			

TABLE H.—FOOD CONDEMNED AND DESTROYED.

Beasts	.....	17	Carcases and offal (16 Tuberculosis and 1 Peritonitis).
			1 Sirloin (Decomposition.)
		11	Sets of Lungs.
		22	Livers.
		48	lbs. frozen Kidneys.
Sheep	.....	1	dozen Lambs' Heads.
		32	lbs. Livers (Flukes).
Pigs	.....	1	Carcase (Suffocation).
		48	lbs. frozen Kidneys.
Tripe	.....	23	stone.
Fish	.....	9	stone.
		2	stone (dried).
Geese	.....	30	
Rabbits	.....	2	dozen (frozen).
Milk	.....	12	gallons.
Fruit	.....		Several small quantities (unsound).

